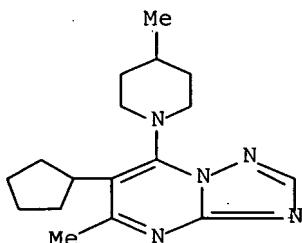


(Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of (alkyl)(amino)triazolopyrimidines as agricultural fungicides)

RN 691005-18-2 CAPLUS

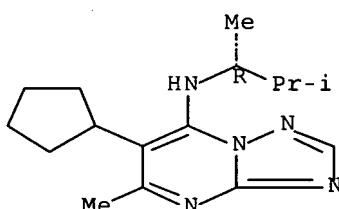
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RN 691005-19-3 CAPLUS

CN [1,2,4]Triazolo[1,5-a]pyrimidin-7-amine, 6-cyclopentyl-N-[(1R)-1,2-dimethylpropyl]-5-methyl- (9CI) (CA INDEX NAME)

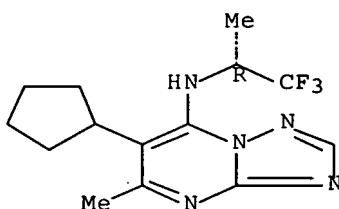
Absolute stereochemistry.



RN 691005-20-6 CAPLUS

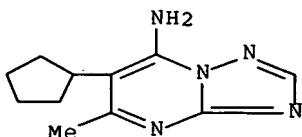
CN [1,2,4]Triazolo[1,5-a]pyrimidin-7-amine, 6-cyclopentyl-5-methyl-N-[(1R)-2,2,2-trifluoro-1-methylethyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



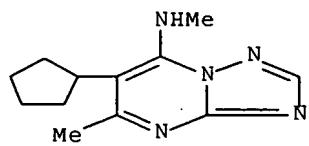
RN 691005-21-7 CAPLUS

CN [1,2,4]Triazolo[1,5-a]pyrimidin-7-amine, 6-cyclopentyl-5-methyl- (9CI) (CA INDEX NAME)



RN 691005-22-8 CAPLUS

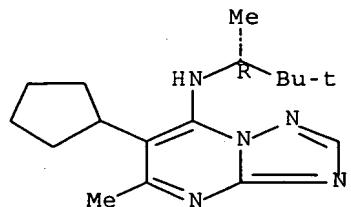
CN [1,2,4]Triazolo[1,5-a]pyrimidin-7-amine, 6-cyclopentyl-N,5-dimethyl- (9CI) (CA INDEX NAME)



RN 691005-23-9 CAPLUS

CN [1,2,4]Triazolo[1,5-a]pyrimidin-7-amine, 6-cyclopentyl-5-methyl-N-[(1R)-1,2,2-trimethylpropyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



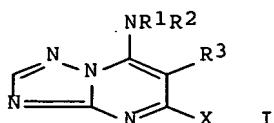
RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN
 AN 2004:412948 CAPLUS Full-text
 DN 140:423679
 TI Preparation of 5-alkyl-7-aminotriazolopyrimidines as agricultural fungicides
 IN Tormo i Blasco, Jordi; Blettner, Carsten; Mueller, Bernd; Gewehr, Markus; Grammenos, Wassilios; Grote, Thomas; Gypser, Andreas; Rheinheimer, Joachim; Schaefer, Peter; Schieweck, Frank; Schwoegler, Anja; Ammermann, Eberhard; Strathmann, Siegfried; Schoefl, Ulrich; Stierl, Reinhard
 PA BASF Aktiengesellschaft, Germany
 SO PCT Int. Appl., 37 pp.
 CODEN: PIXXD2

DT Patent
 LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004041825	A1	20040521	WO 2003-EP12277	20031104
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	CA 2504192	A1	20040521	CA 2003-2504192	20031104
	AU 2003283348	A1	20040607	AU 2003-283348	20031104
	BR 2003015780	A	20050913	BR 2003-15780	20031104
	EP 1585747	A1	20051019	EP 2003-775290	20031104
	EP 1585747	B1	20060913		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
	CN 1711263	A	20051221	CN 2003-80102810	20031104
	JP 2006514000	T	20060427	JP 2004-549100	20031104
	AT 339421	T	20061015	AT 2003-775290	20031104
	US 2005272749	A1	20051208	US 2005-531981	20050420
PRAI	DE 2002-10252261	A	20021107		
	WO 2003-EP12277	W	20031104		
OS	MARPAT 140:423679				
GI					



AB Title compds. [I; R1, R2 = H, alkyl, alkenyl, alkynyl, haloalkyl, cycloalkyl, Ph, naphthyl, 5-6 membered (saturated) (aromatic) heterocycl; or NR1R2 = 5-6 membered heterocycl, etc.; R3 = (substituted) C3-14 cycloalkyl, C6-14 bicycloalkyl; X = C1-6 alkyl, C1-2 haloalkyl], were prepared Thus, 5-methyl-6-cyclopentyl-7-chloro-1,2,4-triazolo[1,5-a]pyrimidine (preparation given) was stirred with a solution of 4-methylpiperidine, Et3N, and CH2Cl2 for 16 h at 20°-25° to give 5-methyl-6-cyclopentyl-7-(4-methylpiperidin-1-yl)-1,2,4-triazolo[1,5-a]pyrimidine. The latter at 250 ppm gave 100% control of *Alternaria solani*.

IT 691005-18-2P 691005-19-3P 691005-20-6P
 691005-21-7P 691005-22-8P 691005-23-9P
 RL: AGR (Agricultural use); BSU (Biological study, unclassified); SPN

OREF 42:7178h-i,7179a-i,7180a-i

TI Stabilizers for photographic emulsions

IN Heimbach, Newton; Kelly, Walter, Jr.

PA General Aniline & Film Corp.

DT Patent

LA Unavailable

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2444605		19480706	US 1945-635334	19451215
GI For diagram(s), see printed CA Issue.					
AB Light-sensitive Ag halide emulsions are stabilized by hydroxy-1,3,4-triazaindolizines (I) obtained by the condensation of a β -keto ester, a malonic acid ester, or a mononitrile of a malonic acid ester with an aminotriazole. In I R is H, alkyl, alicyclic, aryl, or heterocyclic, R' is H, alkyl, alicyclic, aryl, or a heterocyclic radical of the same value as R, and R'' is either NH ₂ , OH, carbalkoxy, alkyl, or an alicyclic or heterocyclic radical of the same value as R. When R and R' are H, R'' must be a radical other than alkyl. I is prepared by refluxing 1 mol. of the β -keto ester, malonic ester, or mononitrile of a malonic ester with 1 mol. 3-amino-1,2,4-triazole at reflux temperature in the presence of a solvent, e.g., glacial AcOH, 3-8 hrs.; during the treatment H ₂ O and alc. are formed. As the condensation proceeds the final product either ppt. from solution during the reaction or is removed by diluting the solvent with H ₂ O, EtOH, etc. Suitable β -keto esters are acetoacetic ester, malonic esters and mononitriles are di-Me malonate, Et cyanoacetate, and 5-amino-1,2,4,1H-triazoles are 5-amino-3-methyl-1,2,4,1H-triazole, etc. The following 1,3,4-triazaindolizines have been prepared: 7-hydroxy-6-ethyl-5-methyl (II); 7-hydroxy-6-ethyl-2,5-dimethyl; 7-hydroxy-5-methyl-2-phenyl; 7-hydroxy-2-methyl-5-phenyl; 7-hydroxy-5-phenyl (III); 7-hydroxy-2,5-diphenyl; 7-hydroxy-2-isopropyl-5-methyl; 7-hydroxy-2,5-dimethyl; 5,7-dihydroxy; 7-hydroxy-5-amino; 7-hydroxy-5-carbethoxy; 7-hydroxy-5-(3-pyridyl) (IV); 7-hydroxy-2-cyclohexyl-5-methyl; 7-hydroxy-2-(2-furyl)-5-methyl; 7-hydroxy-5-cyclohexyl; 7-hydroxy-6-cyclohexyl-5-methyl; 7-hydroxy-6-(2-furyl)-5-methyl; 7-hydroxy-5-methyl-6-phenyl. In preparing an emulsion with stabilizers, a solution of the stabilizer in a solvent, e.g., alc. or alc.-H ₂ O, pH 7.5-10, is made and the solution mixed with the emulsion during ripening or prior to coating in concns. of 25-500 mg. per 1. of emulsion. Testing of stabilizers used in the following examples consists of coating 2 film strips, e.g., cellulose acetate, with the same emulsion, one with and one without a stabilizer, storing the emulsions in an incubator for 6 days at 50°, then processing in the usual way. The fog d. in the unexposed areas in the emulsions is measured in a transmission densitometer. A gelatin-bromoiodide emulsion without stabilizer gave a fog d. of 0.28 while another film coated with the same emulsion containing an addition of 100 mg. IV per 1 l. emulsion equivalent to 50 g. Ag halide, gave a fog d. of 0.08; an equivalent quantity of III substituted for IV gave the same results; 75 mg. II substituted for 100 mg. IV gave a fog d. of 0.1. Emulsions containing these stabilizers not only reduce fog produced by incubation or by long storage, but also diminish or eliminate changes of speed to which some emulsions are susceptible. Stabilizers are used in orthochromatic, panchromatic, nonsensitized, and x-ray emulsions. If used with sensitizing dyes they are added to the emulsion before or after the dyes are added. Dispersing agents for Ag halides are gelatin or H ₂ O-soluble cellulose derivs., e.g., hydroxyethylcellulose. Stabilizers are employed in gelatin or other colloid, e.g., polyamides, as an under- or overcoat for the emulsion or as backing layer for the support. They may be incorporated in the support for the sensitive emulsion layer or in an					

intermediate layer between the sensitive emulsion layer and the support, such as the baryta coating used in photographic papers, or incorporated in a protective layer coated on the emulsion surface, or the finished photographic material may be bathed in an alc. or alc.-H₂O solution containing the stabilizer. In U.S. 2,444,606, I are obtained by the condensation of a β -keto or β -imino nitrile with a 5-amino-1,2,4,1H-triazole; R and R' are H, alkyl, alicyclic, aryl, or a heterocyclic radical, and R'' is either alkyl, alicyclic, aryl, or a heterocyclic radical of the same value as R. Suitable β -keto nitriles are acetylacetone and β -imino nitriles, β -iminobutyronitrile. As condensation between the β -keto or β -imino group and the primary amino group of the 5-amino-1,2,4,1H-triazole proceeds the final product either ppt. or is removed by diluting the solvent with H₂O, EtOH, or Me₂CO. The following 1,3,4-triazaindolizines have been prepared: 7-amino-5-methyl (V); 7-amino-5-phenyl (VI); 7-amino-5-methyl-2-phenyl (VII); 7-amino-6-ethyl-5-methyl; 7-amino-5-methyl-6-phenyl; 7-amino-2-(2-furyl)-5-methyl; 7-amino-5-(3-pyridyl); 7-amino-2,5-dimethyl; 7-amino-2-cyclohexyl-5-methyl; 7-amino-5-cyclohexyl; 7-amino-5-methyl-6-(3-pyridyl); 7-amino-5-methyl-6-cyclohexyl. The same testing procedures as in U.S. 2,444,605 were used: In the 1st example, V gave the same results; in the 2nd example, VI gave the same results; in the 3rd example, 75 mg. VII substituted for 100 mg. V gave a fog d. of 0.1. In U.S. 2,444,608, the preparation of 1,3-bis(5-amino-1,3,4,1H-triazolyl)oxopropenes (VIII), where R is H or alkyl, R' is alkyl of the same value as R, aryl, or aralkyl, and R'' is either H, allyl, or alkyl of the same value as R, by condensing a β -keto ester or anilide thereof with a 5-amino-1,2,4,1H-triazole, and their use as stabilizers to prevent fog and increase stability are given. Suitable β -keto esters and anilides are, e.g., Et acetoacetate, Et toluylacetylacetanilide. Condensation is carried out by heating the reagents at 150-60° with C₆H₅NO₂ for from 10 min. to 2 hrs. The final product either ppt. or is removed by diluting with an aromatic hydrocarbon, e.g., PhMe, or an oxygenated solvent, e.g., EtOH, and recrystd. from H₂O. Instead of heating, the reactants may be allowed to stand in cold 5-20% aqueous NaOH or KOH for several days at room temperature, diluted with an equal volume of H₂O, and warmed to redissolve the product. Cold glacial AcOH is added and, after chilling, the product is filtered, washed in cold H₂O, and recrystd. from boiling H₂O. The following 2-propen-1-ones have been prepared: 1,3-bis(5-amino-1,2,4,1H-triazol-1-yl)-3-methyl-2-allyl (IX); 1,3-bis(5-amino-1,2,4,1H-triazol-1-yl)-3-methyl (X); 1,3-bis(5-amino-3-methyl-1,2,4,1H-triazol-1-yl)-3-methyl (XI); 1,3-bis(5-amino-3-methyl-1,2,4,1H-triazol-1-yl)-3-methyl-2-allyl; 1,3-bis(5-amino-1,2,4,1H-triazol-1-yl)-3-phenyl; 1,3-bis(5-amino-1,2,4,1H-triazol-1-yl)-3-ethyl; 1,3-bis(5-amino-3-propyl-1,2,4,1H-triazol-1-yl)-3-methyl; 1,3-bis(5-amino-3-ethyl-1,2,4,1H-triazol-1-yl)-2,3-dimethyl. The following examples illustrate the preparation of the compds.: Example 1. To 15 cc. C₆H₅NO₂, 8.4 g. 5-amino-1,2,4,1H-triazole and 8.5 g. Et α -allylacetoacetate were added and the mixture was heated to 150-60° 1 hr., cooled to room temperature, and the product precipitated with Et₂O. The precipitate was washed with Et₂O and recrystd. from H₂O with charcoal. Example 2. 8.4 g. 5-amino-1,2,4,1H-triazole was dissolved in 15 cc. H₂O, the mixture cooled to room temperature, and 13 g. ethyl acetoacetate added. After standing 15 min., a cold solution of 4 g. NaOH in 10 cc. H₂O was added slowly with cooling to keep at room temperature. After standing for 2 days, the mixture was diluted to 40 cc. and warmed to redissolve the precipitate, then 6 g. cold glacial AcOH added, and, after chilling, the product filtered, washed with H₂O, and recrystd. from boiling H₂O. Example 3. To 15 cc. C₆H₅NO₂, 9.8 g. 5-amino-3-methyl-1,2,4,1H-triazole and 6.5 g. Et acetoacetate were added and the mixture was heated to 150-60° 1 hr., cooled to room temperature, and the product isolated by diluting with Et₂O and recrystg. from H₂O. Example 4. Example 3 was repeated except that 96 g. Et benzoylacetate was substituted for 6.5 g. Et acetoacetate. By the same procedure as used in the 1st example of U.S. 2,444,605 in testing VIII as

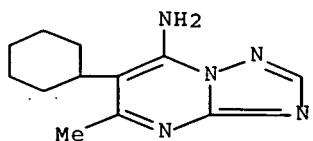
stabilizers, IX had a fog d. of 0.06; an equivalent amount of X gave the same results; 75 mg. XI substituted for 100 mg. IX gave a fog d. of 0.1. Cf. preceding and following abstrs.

IT 856864-33-0P, s-Triazolo[1,5-a]pyrimidine, 7-amino-6-cyclohexyl-5-methyl-

RL: PREP (Preparation) (preparation of)

RN 856864-33-0 CAPLUS

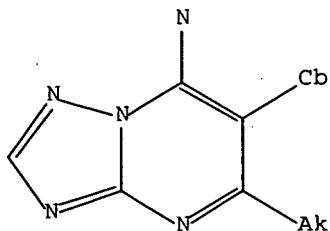
CN s-Triazolo[1,5-a]pyrimidine, 7-amino-6-cyclohexyl-5-methyl- (5CI) (CA INDEX NAME)



=> d l2; d 17; d l11; d his; log y

L2 HAS NO ANSWERS

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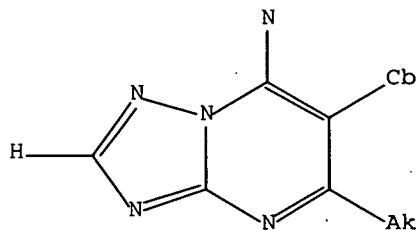


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L7 HAS NO ANSWERS

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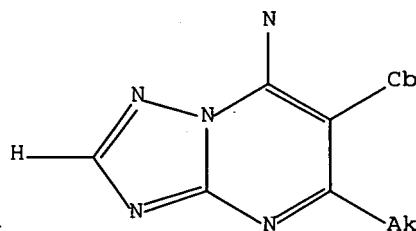


Structure attributes must be viewed using STN Express query preparation.

L7 QUE ABB=ON PLU=ON L6

L11 HAS NO ANSWERS

L10 STR



Structure attributes must be viewed using STN Express query preparation.

L11 QUE ABB=ON PLU=ON L10

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FILE 'REGISTRY' ENTERED AT 11:56:37 ON 18 JUN 2007

L1 STRUCTURE uploaded

L2 QUE L1

L3 15 S L2

L4 244 S L2 FUL

FILE 'CAPLUS' ENTERED AT 11:57:07 ON 18 JUN 2007

L5 34 S L4

FILE 'REGISTRY' ENTERED AT 11:57:36 ON 18 JUN 2007

L6 STRUCTURE uploaded

L7 QUE L6

L8 12 S L7 SAM SUB=L4

L9 185 S L7 FUL SUB=L4
L10 STRUCTURE uploaded
L11 QUE L10
L12 0 S L11 SAM SUB=L9
L13 7 S L11 FUL SUB=L9

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L14 2 S L13

FILE 'MARPAT' ENTERED AT 12:01:46 ON 18 JUN 2007
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L16 1 S L13 FUL
L17 0 S L16 NOT L14

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	63.70	331.51
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-1.56

STN INTERNATIONAL LOGOFF AT 12:03:19 ON 18 JUN 2007

EAST Search History

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S3	2	"6770669".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/15 11:12
S4	2	"6872738".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/15 11:12
S5	2	"20050261314"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/15 13:10
S11	125366	phytopathogenic fungi	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/18 09:07
S12	6189	phytopathogenic fungi	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/06/15 13:41

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S16	729	S14 S15	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/06/15 13:42
S17	818293	amino	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/06/15 13:42
S18	582	S16 S17	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/06/15 13:42
S19	406	cycloalkyl S18	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/06/15 13:43

EAST Search History

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S22	85	"5961561"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/06/15 15:13
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S24	2	"5965561".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/06/15 15:14
S25	6189	phytopathogenic fungi	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/06/16 15:51
S26	73	pentafluoro and S25	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/06/16 15:52

EAST Search History

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S32	4351	pentafluoro	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/06/18 09:07
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